CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
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JAS-ANZ
ISO 9001:2008 CERTIFIED

Job No.: CQCE/BBMP/NMK/17/2020-2021 Date:07.03.2021

TEST REPORT ON CEMENT

Client Agency : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Name of Work : **Sri. N M Krishnamurthy,** Contractor, Bangalore.
Comprehensive Development of Roads, Drains, Special repairs to buildings and other works in Sunnadagoodu, Ambedkarnagar, Mohan Kumar nagar, Poornapura, Ramabhovi Colony, Jalahalli Harijana, Siddarthanagar, Khathanagar, Ashrayanagar, Karadigudi, Peenya 4th block A K Colony and Surrounding areas of Slums in R R Nagar Constituency under PACKAGE- 2019-20 RRN-DIV-(13)

Sample : :Cement (Zuari 53 grade OPC)
Sample Supplied by: :AGENCY
Date of Manufacture: :February-2021
Date of Testing 05.03.2021 to 07.03.2021

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	365 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50%	-

Asst. Executive Engineer
Yeshwanthpura Sub-Division
Bruhat Bangalore Mahanagara Palike

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
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Job No.: CQCE/BBMP/NMK/17/2020-2021

Date 06.03.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : Executive Engineer, RR Nagar Division,BBMP, Bangalore.
Agency : Sri. N M Krishnamurthy, Contractor, Bangalore.
Name of Work Comprehensive Development of Roads, Drains, Special repairs to buildings and other works in Sunnadagoodu, Ambedkarnagar, Mohan Kumar nagar, Poornapura, Ramabhovi Colony, Jalahalli Harijana, Siddarthanagar, Khathanagar, Ashrayanagar, Karadigudi, Peenya 4th block A K Colony and Surrounding areas of Slums in R R Nagar Constituency under PACKAGE- 2019-20 RRN-DIV-(13)

Date of Testing 06.03.2021
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : Sand

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	82	8.20	8.20	91.8	90-100
2.36	115	11.50	19.70	80.3	75-100
1.18	171	17.10	36.80	63.2	55-90
600 Micron	229	22.90	59.70	40.3	35-59
300 Micron	178	17.80	77.50	22.5	8-30
150 Micron	145	14.50	92.00	8.0	0-10

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Job No.: CQCE/BBMP/NMK/17/2020-2021

Date 06.03.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.

Agency : **Sri. N M Krishnamurthy,** Contractor, Bangalore.

Name of Work Comprehensive Development of Roads, Drains, Special repairs to buildings and other works in Sunnadagoodu, Ambedkarnagar, Mohan Kumar nagar, Poornapura, Ramabhovi Colony, Jalahalli Harijana, Siddarthanagar, Khathanagar, Ashrayanagar, Karadigudi, Peenya 4th block A K Colony and Surrounding areas of Slums in R R Nagar Constituency under PACKAGE-2019-20 RRN-DIV-(13)

Date of Testing 06.03.2021

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	189	3.8	3.8	96.2	95-100
10	3146	62.9	66.7	33.3	25-55
4.75	1253	25.1	91.8	8.2	0-10

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Job No.: CQCE/BBMP/NMK/17/2020-2021

Date 06.03.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.

Agency : **Sri. N M Krishnamurthy,** Contractor, Bangalore.

Name of Work Comprehensive Development of Roads, Drains, Special repairs to buildings and other works in Sunnadagoodu, Ambedkarnagar, Mohan Kumar nagar, Poornapura, Ramabhovi Colony, Jalahalli Harijana, Siddarthanagar, Khathanagar, Ashrayanagar, Karadigudi, Peenya 4th block A K Colony and Surrounding areas of Slums in R R Nagar Constituency under PACKAGE-2019-20 RRN-DIV-(13)

Date of Testing 06.03.2021

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	202	1.35	1.35	98.65	95-100
20	8465	56.43	57.78	42.22	30-70
10	3169	21.13	78.91	21.09	10-35
4.75	2596	17.31	96.21	3.79	0-5

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Job No.: CQCE/BBMP/NMK/17/2020-2021

Date: 06.03.2021

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.

Agency : : **Sri. N M Krishnamurthy,** Contractor, Bangalore.

Name of Work : Comprehensive Development of Roads, Drains, Special repairs to buildings and other works in Sunnadagoodu, Ambedkarnagar, Mohan Kumar nagar, Poornapura, Ramabhovi Colony, Jalahalli Harijana, Siddarthanagar, Khathanagar, Ashrayanagar, Karadigudi, Peenya 4th block A K Colony and Surrounding areas of Slums in R R Nagar Constituency under PACKAGE- 2019-20 RRN-DIV-(13)

Sample Identification : 8mm,10mm,12mm Fe 500 TMT Bars

Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

Date of test : 06.03.2021

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation, percent on gauge length
1	Fe 500	8	0.396	521	603	15
2	Fe 500	10	0.619	509	621	18
3	Fe 500	12	0.889	527	613	20

Remarks:

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Job No.: CQCE/BBMP/NMK/17/2020-2021

Date: 15.04.2021

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client : : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.

Contractor : : **Sri. N M Krishnamurthy,** Contractor, Bangalore.

Name of Work : Comprehensive Development of Roads, Drains, Special repairs to buildings and other works in Sunnadagoodu, Ambedkarnagar, Mohan Kumar nagar, Poornapura, Ramabhovi Colony, Jalahalli Harijana, Siddarthanagar, Khathanagar, Ashrayanagar, Karadigudi, Peenya 4th block A K Colony and Surrounding areas of Slums in R R Nagar Constituency under PACKAGE- 2019-20 RRN-DIV-(13)

No.of Sample Tested : 03

Date of Testing : 15.04.2021

Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	80.00	0.362	2304.56	1.60	0.957	33.40	17.01	18.37	17.58	21.97
2	50.00	80.00	0.358	2279.10	1.60	0.957	32.60	16.60	17.93	17.16	21.45
3	50.00	80.00	0.369	2349.13	1.60	0.957	32.10	16.35	17.66	16.89	21.12

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Job No.: CQCE/BBMP/NMK/17/2020-2021

Date: 15.04.2021

PRECAST SLAB 250mm Thick(CORE) TEST REPORT

Client : : Executive Engineer, RR Nagar Division,BBMP, Bangalore.
Contractor : : Sri. N M Krishnamurthy, Contractor, Bangalore.
Name of Work : Comprehensive Development of Roads, Drains, Special repairs to buildings and other works in Sunnadagoodu, Ambedkarnagar, Mohan Kumar nagar, Poornapura, Ramabhovi Colony, Jalahalli Harijana, Siddarthanagar, Khathanagar, Ashrayanagar, Karadigudi, Peenya 4th block A K Colony and Surrounding areas of Slums in R R Nagar Constituency under PACKAGE- 2019-20 RRN-DIV-(13)

No.of Sample Tested : 03
Date of Testing : 15.04.2021
Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete : M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	80.00	0.363	2310.93	1.60	0.957	33.20	16.91	18.26	17.47	21.84
2	50.00	80.00	0.374	2380.96	1.60	0.957	33.70	17.16	18.54	17.74	22.17
3	50.00	80.00	0.590	3756.06	1.60	0.957	31.90	16.25	17.55	16.79	20.99

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Job No.: CQCE/BBMP/NMK/17/2020-2021 Date: 15.04.2021

KERB STONE (CORE) TEST REPORT

Client	:	: Executive Engineer, RR Nagar Division,BBMP, Bangalore.
Agency	:	: Sri. N M Krishnamurthy, Contractor, Bangalore.
Name of Work	:	Comprehensive Development of Roads, Drains, Special repairs to buildings and other works in Sunnadagoodu, Ambedkarnagar, Mohan Kumar nagar, Poornapura, Ramabhovi Colony, Jalahalli Harijana, Siddarthanagar, Khathanagar, Ashrayanagar, Karadigudi, Peenya 4th block A K Colony and Surrounding areas of Slums in R R Nagar Constituency under PACKAGE- 2019-20 RRN-DIV-(13)
No.of Sample Tested	:	03
Date of Testing	:	15.04.2021
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	80.00	0.363	2310.93	1.60	0.957	26.80	13.65	14.74	14.10	17.63
2	50.00	80.00	0.369	2349.13	1.60	0.957	28.10	14.31	15.46	14.79	18.49
3	50.00	80.00	0.373	2374.59	1.60	0.957	26.40	13.45	14.52	13.89	17.37

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Job No.: CQCE/BBMP/NMK/17/2020-2021

Date: 25.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency : **Sri. N M Krishnamurthy,** Contractor, Bangalore.
Name of the work Comprehensive Development of Roads, Drains, Special repairs to buildings and other works in Sunnadagoodu, Ambedkarnagar, Mohan Kumar nagar, Poornapura, Ramabhovi Colony, Jalahalli Harijana, Siddarthanagar, Khathanagar, Ashrayanagar, Karadigudi, Peenya 4th block A K Colony and Surrounding areas of Slums in R R Nagar Constituency under PACKAGE-2019-20 RRN-DIV-(13)

Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.03.2021	25.03.2021	8.165	352.9	15.68
2	18.03.2021	25.03.2021	8.099	364.6	16.20
3	18.03.2021	25.03.2021	8.124	382.3	16.99

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Job No.: CQCE/BBMP/NMK/17/2020-2021

Date: 25.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency	: **Sri. N M Krishnamurthy,** Contractor, Bangalore.
Name of the work	Comprehensive Development of Roads, Drains, Special repairs to buildings and other works in Sunnadagoodu, Ambedkarnagar, Mohan Kumar nagar, Poornapura, Ramabhovi Colony, Jalahalli Harijana, Siddarthanagar, Khathanagar, Ashrayanagar, Karadigudi, Peenya 4th block A K Colony and Surrounding areas of Slums in R R Nagar Constituency under PACKAGE-2019-20 RRN-DIV-(13)
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.03.2021	25.03.2021	8.025	364.9	16.22
2	18.03.2021	25.03.2021	8.174	371.2	16.50
3	18.03.2021	25.03.2021	8.136	379.6	16.87

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Job No.: CQCE/BBMP/NMK/17/2020-2021

Date: 25.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency	: **Sri. N M Krishnamurthy,** Contractor, Bangalore.
Name of the work	Comprehensive Development of Roads, Drains, Special repairs to buildings and other works in Sunnadagoodu, Ambedkarnagar, Mohan Kumar nagar, Poornapura, Ramabhovi Colony, Jalahalli Harijana, Siddarthanagar, Khathanagar, Ashrayanagar, Karadigudi, Peenya 4th block A K Colony and Surrounding areas of Slums in R R Nagar Constituency under PACKAGE-2019-20 RRN-DIV-(13)
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.03.2021	25.03.2021	8.165	402.6	17.89
2	18.03.2021	25.03.2021	8.174	421.8	18.75
3	18.03.2021	25.03.2021	8.098	396.2	17.61

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Job No.: CQCE/BBMP/NMK/17/2020-2021

Date: 26.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency	**: Sri. N M Krishnamurthy,** Contractor, Bangalore.
Name of the work	Comprehensive Development of Roads, Drains, Special repairs to buildings and other works in Sunnadagoodu, Ambedkarnagar, Mohan Kumar nagar, Poornapura, Ramabhovi Colony, Jalahalli Harijana, Siddarthanagar, Khathanagar, Ashrayanagar, Karadigudi, Peenya 4th block A K Colony and Surrounding areas of Slums in R R Nagar Constituency under PACKAGE-2019-20 RRN-DIV-(13)
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.03.2021	26.03.2021	8.142	378.2	16.81
2	19.03.2021	26.03.2021	8.122	381.1	16.94
3	19.03.2021	26.03.2021	8.154	368.9	16.40

Note:

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3. *Any Query regarding the report must be reported within 30 days from the date of testing.*

Asst. Executive Engineer
Yeshwanthpura Sub-Division
Bruhat Bangalore Mahanagara Palike

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
e-mail: civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550

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JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/NMK/17/2020-2021

Date: 26.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency	: **Sri. N M Krishnamurthy,** Contractor, Bangalore.
Name of the work	Comprehensive Development of Roads, Drains, Special repairs to buildings and other works in Sunnadagoodu, Ambedkarnagar, Mohan Kumar nagar, Poornapura, Ramabhovi Colony, Jalahalli Harijana, Siddarthanagar, Khathanagar, Ashrayanagar, Karadigudi, Peenya 4th block A K Colony and Surrounding areas of Slums in R R Nagar Constituency under PACKAGE-2019-20 RRN-DIV-(13)
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.03.2021	26.03.2021	8.021	349.6	15.54
2	19.03.2021	26.03.2021	8.145	357.1	15.87
3	19.03.2021	26.03.2021	8.178	382.6	17.00

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.03.2021	26.03.2021	8.154	339.1	15.07
2	19.03.2021	26.03.2021	8.096	346.2	15.39
3	19.03.2021	26.03.2021	8.174	352.6	15.67

Note:

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.03.2021	27.03.2021	8.154	339.1	15.07
2	20.03.2021	27.03.2021	8.096	346.2	15.39
3	20.03.2021	27.03.2021	8.174	352.6	15.67

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.03.2021	27.03.2021	8.154	339.1	15.07
2	20.03.2021	27.03.2021	8.096	346.2	15.39
3	20.03.2021	27.03.2021	8.174	352.6	15.67

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Grade of Concrete : M_{20}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.03.2021	27.03.2021	8.032	365.5	16.24
2	20.03.2021	27.03.2021	8.096	349.9	15.55
3	20.03.2021	27.03.2021	8.025	350.2	15.56

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